

Product Specification		
Product :	EC 2CTX base coat	
Description :	Clear multi-purpose water-borne fire & heat protection shield. Halogen free.	
Characteristic	Typical values	Test Method
Compound specifications		
Appearance	White viscous thixotropic liquid	Visual
Viscosity (20°C)	5000 – 8000 cps 10000 – 13000 cps	Brookfield RVT, spindle 6/100 rpm Brookfield RVT, spindle 6/20 rpm
Density (20°C)	1,32 g/cm ³ ± 0,05	Pyknometer
pH (20°C – 10% in water)	4 – 5	pH meter
Solids	66 % ± 1 %	Mettler Toledo automatic moisture analyzer
Odour	specific	Normal perception
Composition	Name	Quantity
Phosphorous - melamine based reaction product	Proprietary formulation	66% active matter
Carrier	Water	34%

Disclaimer:

EcoChem / Chemresult shall have no responsibility or liability for any claims resulting from the use and application of this product. The data contained in this document are guidelines for the use and application of the product, which are based on our experience and knowledge. For these guidelines, we cannot be held responsible or liable.

The company applying the coating is responsible for providing the product's application certificate.

Product Information	
Product :	EC 2CTX base coat
Description :	Clear multi-purpose water-borne fire & heat protection shield. Halogen free.
General information	EC 2CTX base coat is a very effective flame retardant coating and thermal barrier. EC 2CTX base coat film properties: colourless and opaque.
Fire retardant system :	EC 2CTX base coat is a phosphorous based intumescent system When exposed to fire or heat, the EC 2CTX base coat foams into a thick, non-flammable insulating char layer which protects the substrate completely. Extremely low smoke emission.
Usage : Interior timber / wood surfaces Gypsum board Paper / cardboard Polystyrene / PU insulation	EC 2CTX base coat is especially designed to protect interior wooden surfaces of all kinds, keeping the original aspect of the substrate. EC 2CTX base coat can only be used in areas with no contact risks. EC 2CTX base coat can also be used on many other materials. To protect the flame retardant properties and to improve the surface properties EC 2CTX base coat is to be protected with EC 2CTX top coat. See EC 2CTX top coat data sheet for product and application information.
Application information :	The surface must be free from dust, grease, wax and resins. EC 2CTX base coat can be applied by brush, spraying (conventional or airless), roller. Dilution is not recommended. Add on 260 µ wet = 350 g/m ² wet coating (2 layers of 130 µ wet each are recommended). EC 2CTX base coat is touch-dry in approx. 2 - 4 hours (20°C / 60% Relative Humidity), fully dry in 24 hours. If the working area is not well ventilated, the drying time will be significantly longer. EC 2CTX base coat is thixotropic, stir well before use. Application with Airless type Graco Mark V / 150 bar – 200 bar is recommended. Drying temperature 15 – 30 °C with a RM below 70 %. Clean tools and surfaces with water.
Dosage :	Example: DIN 4102-B1 or Euroclass B: (EN 13501-1 : 2007 SBI*): Solid wood plates with density ≥ 420 kg/m ³ and thickness ≥ 10mm: apply 260 µ wet layer or 350 g/m ² wet coating (230 g/m ² dry coating). Timber and wood derivatives of fire performance class D-S ₂ ,d ₀ and better; and substrates of fire performance class A ₁ and A ₂ -S ₁ ,d ₀ in practical end-use application: apply 230 µ wet layer or 300 g/m ² wet coating (200g/m ² dry coating). For specific information on other materials, please contact our technical support team.
Handling & safety :	Non-hazardous product under normal operational conditions. Consult the product's Material Safety Data Sheet before using.
Storage & shelf life :	Storage conditions: temperature: 5 – 35°C in sealed containers. Min. 24 months shelf life.
Standard Packing :	Packing unit: 25 kg PE bucket. Pallet quantity: 22 buckets (550 kg).

* SBI: single burning item

Application Instructions

EC 2CTX base coat

Recommendations for Airless spraying of EC 2CTX base coat

Equipment
Plunger pump with a minimal nominal pressure of 200 – 250 bar (type Graco Mark V).
Nozzles
Nozzles 411 and 413 are recommended (0,011 – 0,013 inch / spraying angle 40°).
Filter
Remove filter(s) and sieves from the system.
Hoses
Use high pressure hoses with a diameter of 3/8 inch or 1/2 inch. Recommended max. length: 30 – 40 m.
Viscosity and Temperatures:
Recommended working area temperature for application should be 15°C – 30°C. Lower or higher temperatures will result in bad levelling aspect or will result in dripping off. Before use, store the product accordingly in a heated place for at least 24 hours, to make sure the product temperature is within the recommended range. Max. height distance between spraying pistol and pump: 10 m. Dilution is not recommended. It is recommended to work with 2 layers of 175 g/m ² wet each.
Distance
Nozzle distance from the substrate while spraying: ca. 40 cm